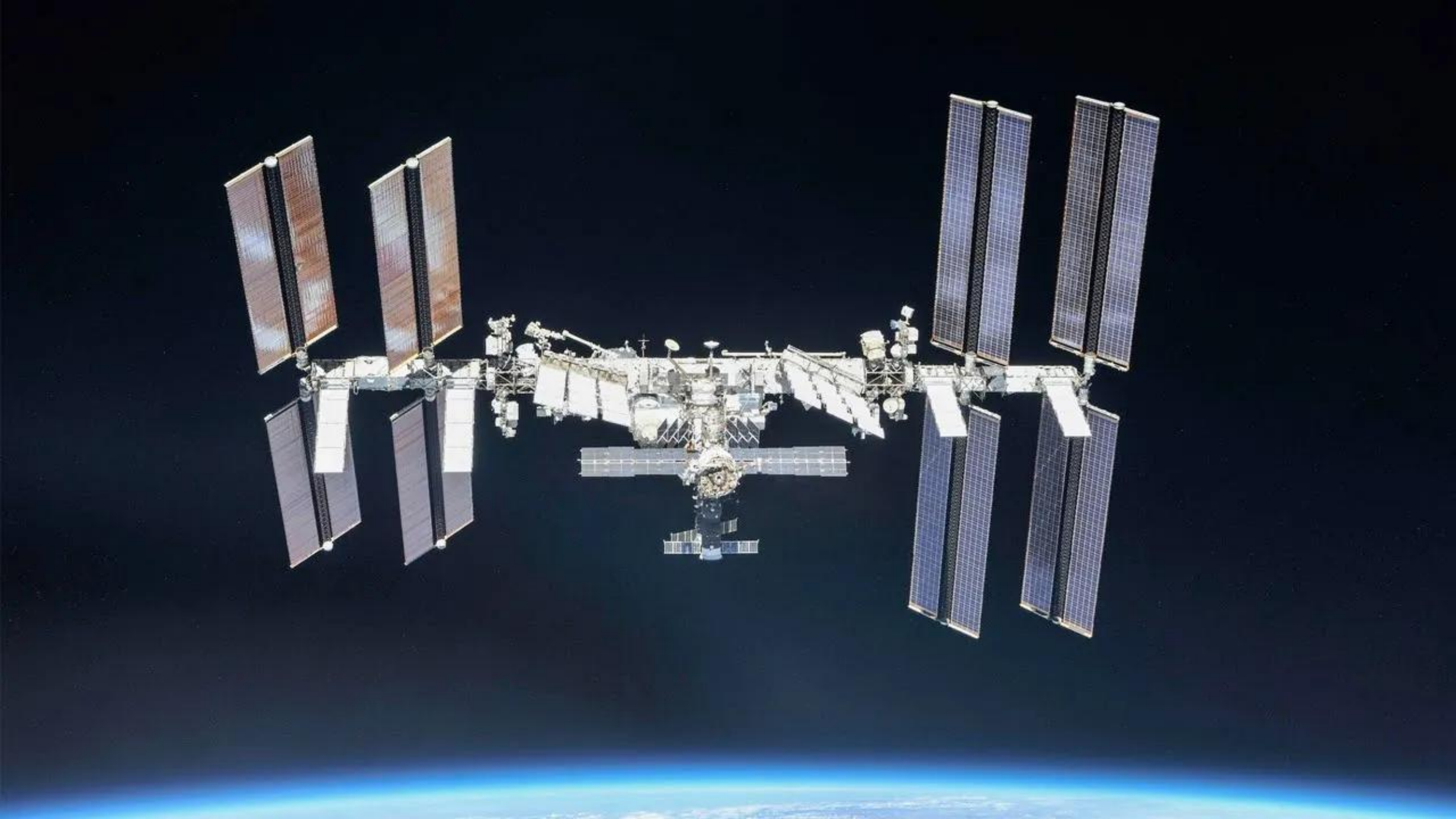

1
00:00:00,400 --> 00:00:03,120
Marking 20 years of humans\h
aboard the space station …
\h

2
00:00:03,120 --> 00:00:06,880
Getting out the vote from space …
And preparations continue for NASA\h\h

3
00:00:06,880 --> 00:00:11,680
and SpaceX’s next crew launch … a few of the\h
stories to tell you about – This Week at NASA!
\h

4
00:00:12,720 --> 00:00:17,680
Nov. 2 marked 20 years of humans continuously\h
living and working aboard the International\h\h

5
00:00:17,680 --> 00:00:22,960
Space Station. As the only laboratory available\h
for long-duration microgravity research, the\h\h

6
00:00:22,960 --> 00:00:28,640
space station has supported numerous discoveries,\h
scientific publications, unique opportunities,\h\h

7
00:00:28,640 --> 00:00:33,920
and historic breakthroughs that help us explore\h
farther into space, and also benefit us here on\h\h

8
00:00:33,920 --> 00:00:40,640
Earth. Find out more at nasa.gov/station20.
NASA’s Kate Rubins became the latest U.S.\h\h

9
00:00:40,640 --> 00:00:45,680
astronaut to cast a ballot from space.\h
NASA has used the Space Communications and\h\h

10
00:00:45,680 --> 00:00:51,520
Navigation (SCaN) network to ensure Americans in\h

space can vote securely since astronaut Dave Wolf\h\h

11
00:00:51,520 --> 00:00:58,000
became the first American to vote from space\h
while onboard the Mir Space Station in 1997.
\h

12
00:00:58,000 --> 00:01:02,080
Preparations continue toward the launch\h
of NASA’s SpaceX Crew-1 mission to the\h\h

13
00:01:02,080 --> 00:01:09,360
International Space Station, currently targeted\h
for Nov. 14 at 7:49 p.m. EST, from our Kennedy\h\h

14
00:01:09,360 --> 00:01:13,760
Space Center in Florida. The mission will\h
increase the size of the station’s crew and\h\h

15
00:01:13,760 --> 00:01:19,680
also the productivity aboard the orbital outpost.
“The amount of research that we can get done, and\h\h

16
00:01:19,680 --> 00:01:25,760
the science that we can get done with just one or\h
two more people is more than just one or two more\h\h

17
00:01:25,760 --> 00:01:32,560
people’s worth of science. And so, the ability for\h
us to accomplish whatever needs to be accomplished\h\h

18
00:01:32,560 --> 00:01:37,680
goes way high with more people on the station.”
Crew-1 is the first crew rotation mission to the\h\h

19
00:01:37,680 --> 00:01:42,400
space station of the SpaceX Crew Dragon spacecraft\h
as part of the agency’s Commercial Crew Program.
\h

20

00:01:43,520 --> 00:01:47,840
Our Lucy mission, which will be the first\h
to visit the Trojan asteroids near Jupiter,\h\h

21
00:01:47,840 --> 00:01:53,200
was recently outfitted with its first scientific\h
instrument. The Lucy LOng Range Reconnaissance\h\h

22
00:01:53,200 --> 00:01:57,387
Imager (L'LORRI) will provide highly detailed\h
views of the surfaces of these never before\h\h

23
00:01:57,387 --> 00:02:02,240
seen bodies that scientists believe once\h
were situated in the outer solar system.\h\h

24
00:02:02,240 --> 00:02:08,400
Lucy is targeted for launch in October 2021.
Two of the advance design propeller assemblies\h\h

25
00:02:08,400 --> 00:02:14,400
for NASA's first all-electric X-plane, the X-57\h
Maxwell, underwent wind tunnel testing recently\h\h

26
00:02:14,400 --> 00:02:19,520
at our Langley Research Center. X-57 will\h
use the motors and propellers during takeoff,\h\h

27
00:02:19,520 --> 00:02:24,480
deactivate them during cruise mode to prevent\h
additional drag, and then use them again to\h\h

28
00:02:24,480 --> 00:02:30,800
help the aircraft land. NASA's primary goal for\h
X-57 is to share the electric-propulsion design,\h\h

29
00:02:30,800 --> 00:02:37,040
lessons learned, and other data with regulators,\h
as new electric aircraft markets begin to emerge.
\h